

FIG. 3 is a schematic diagram of a system for obtaining information about a dispensed fluid, such as using optical fiber to obtain diagnostic information about a fluid at a printhead during printing.

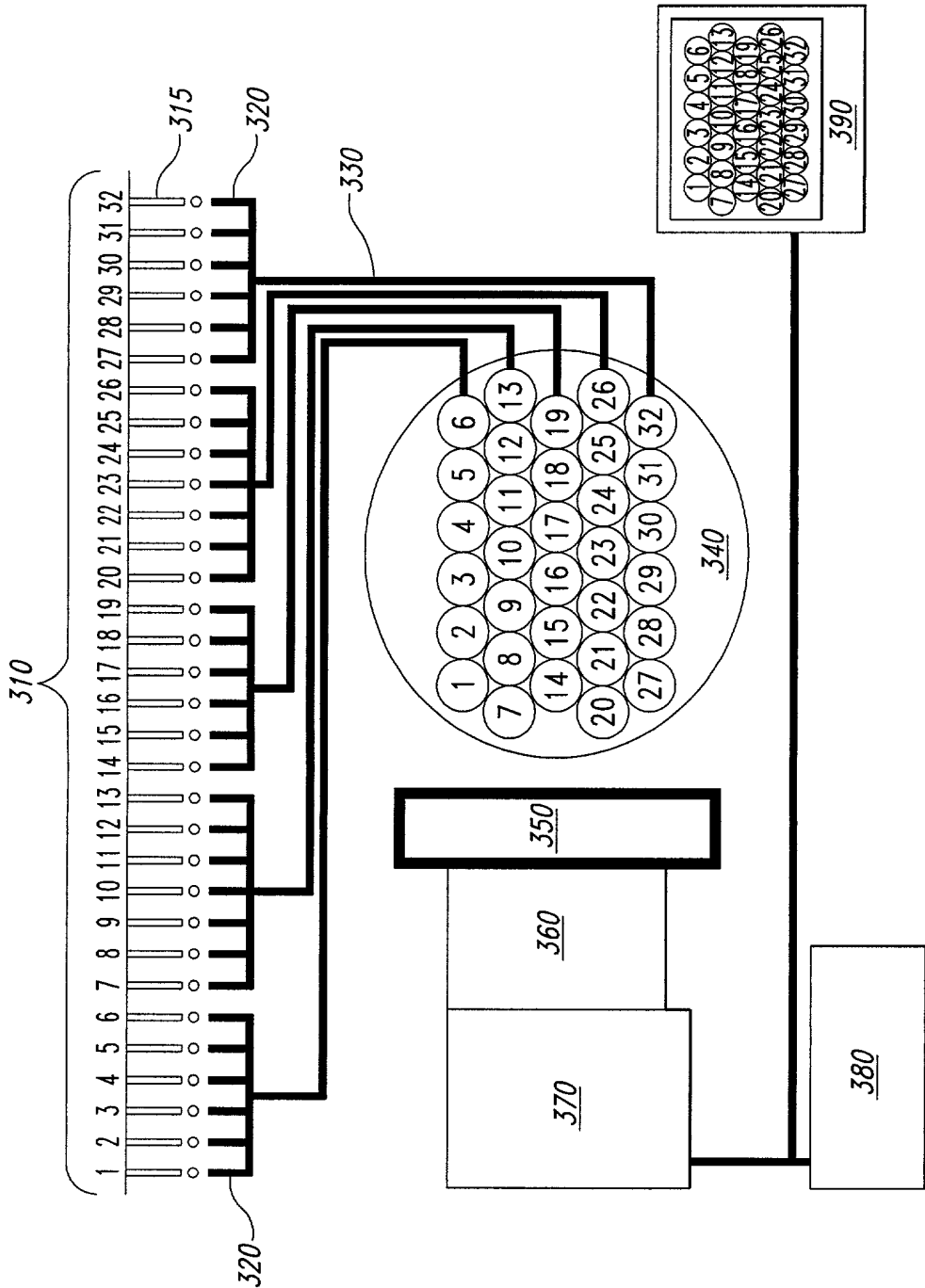


Fig. 3

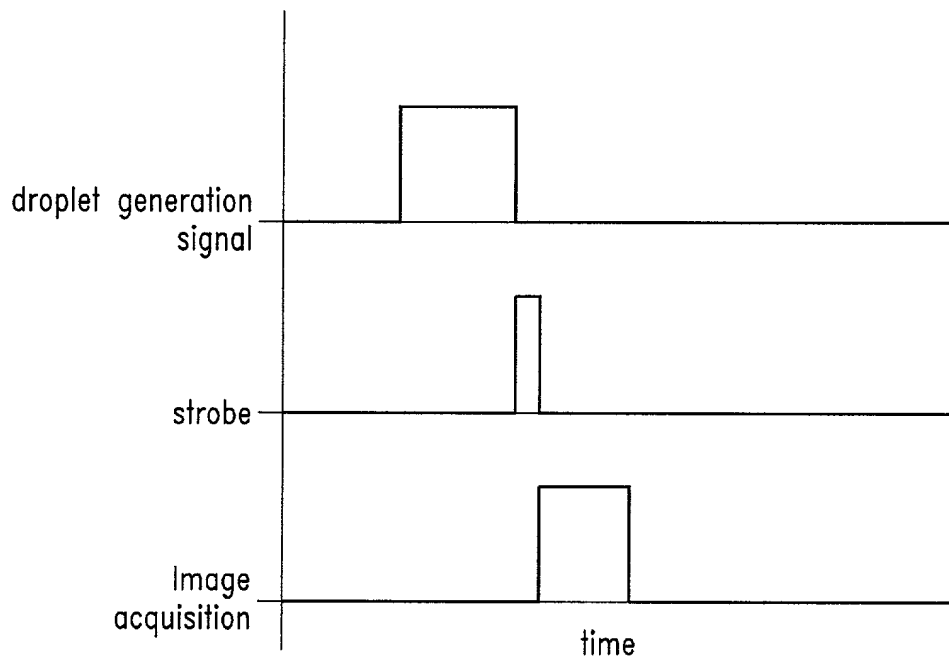


Fig. 4

Droplet Shape and Corresponding Droplet Detector Analog
Waveforms

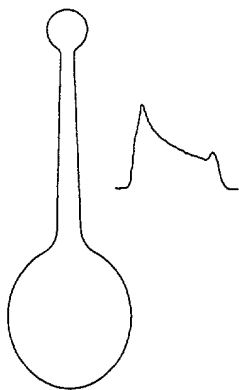


Fig. 5A

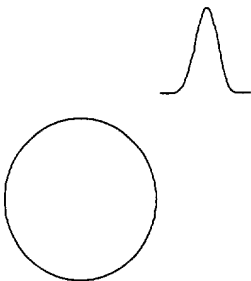


Fig. 5B

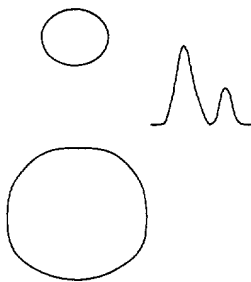


Fig. 5C

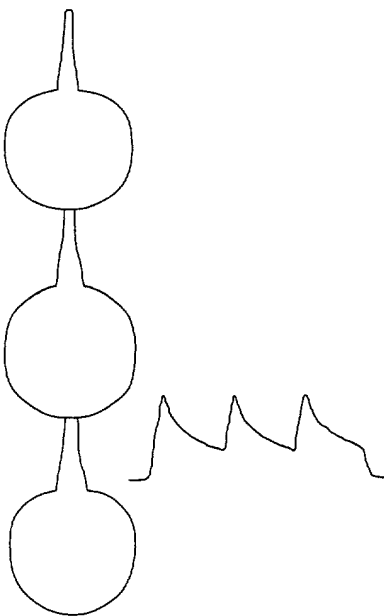


Fig. 5D

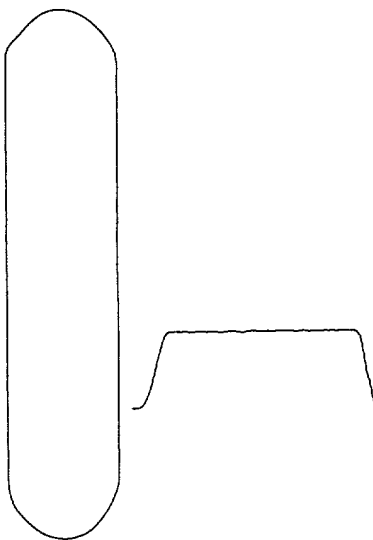


Fig. 5E

4007766-10004

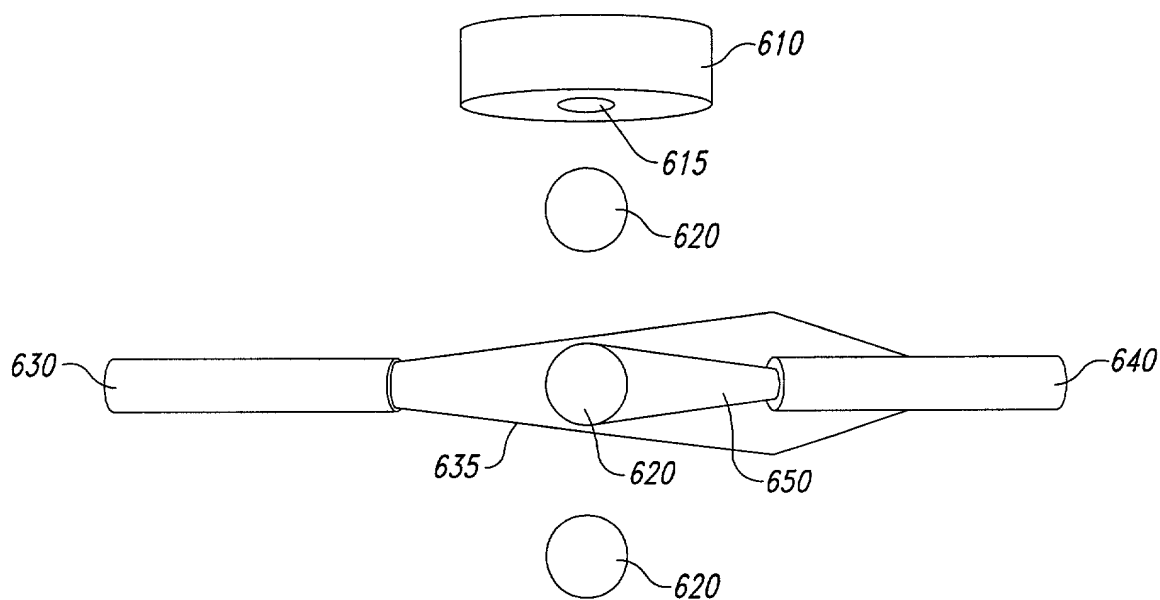


Fig. 6

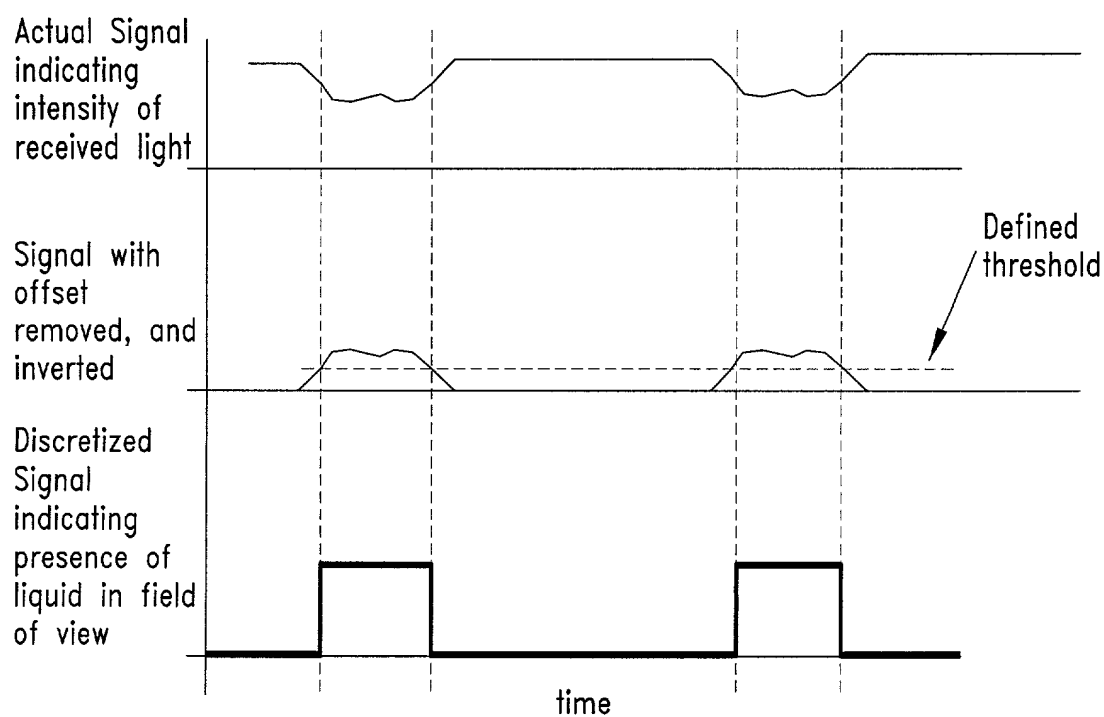


Fig. 7A

Title: A METHOD AND APPARATUS FOR OBTAINING INFORMATION ABOUT A DISPENSED FLUID, SUCH AS USING OPTICAL FIBER TO OBTAIN DIAGNOSTIC INFORMATION ABOUT A FLUID AT A PRINTHEAD DURING PRINTING

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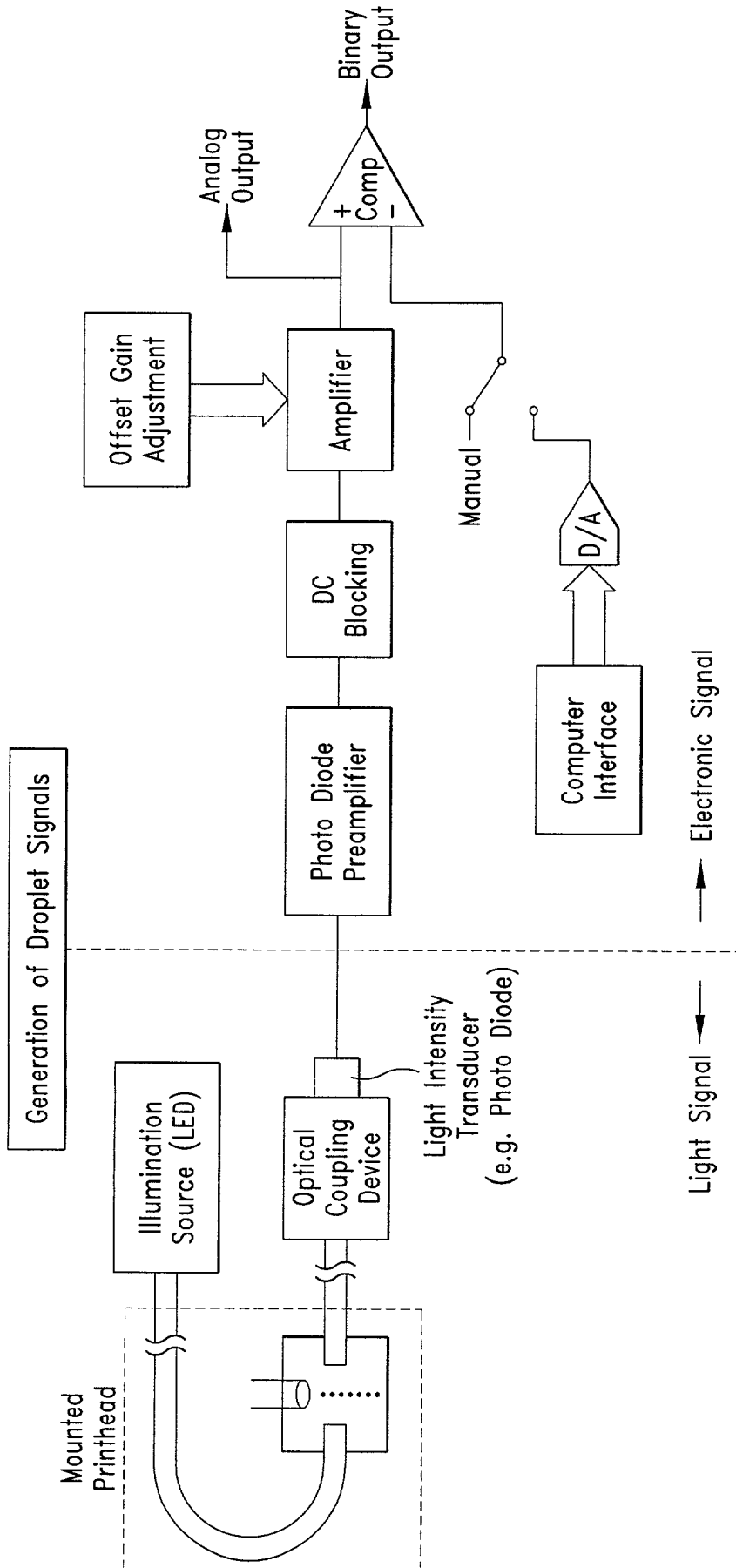
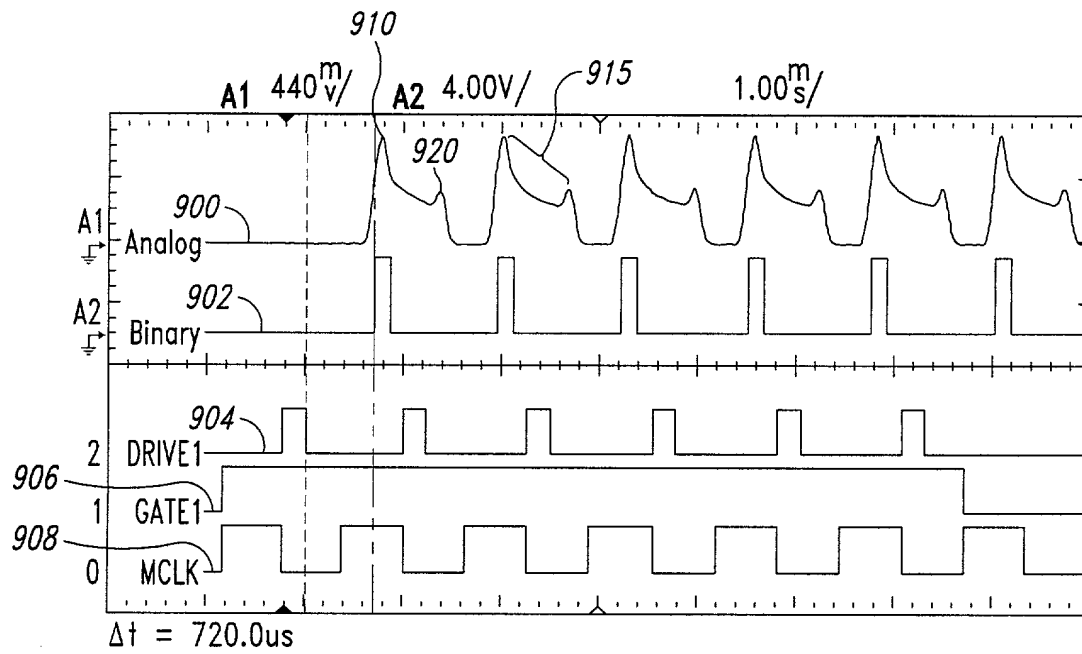
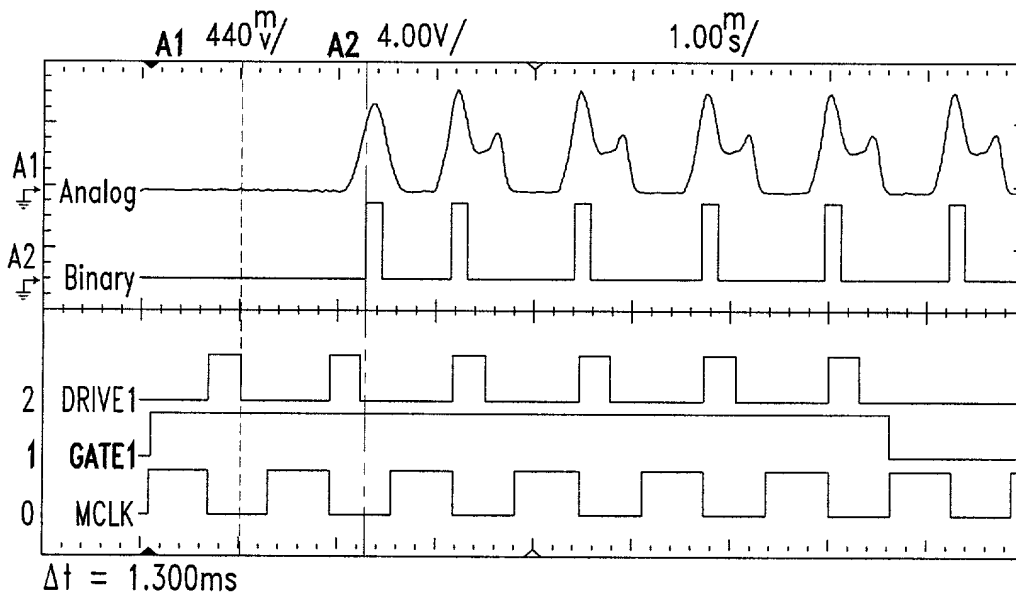


Fig. 7B



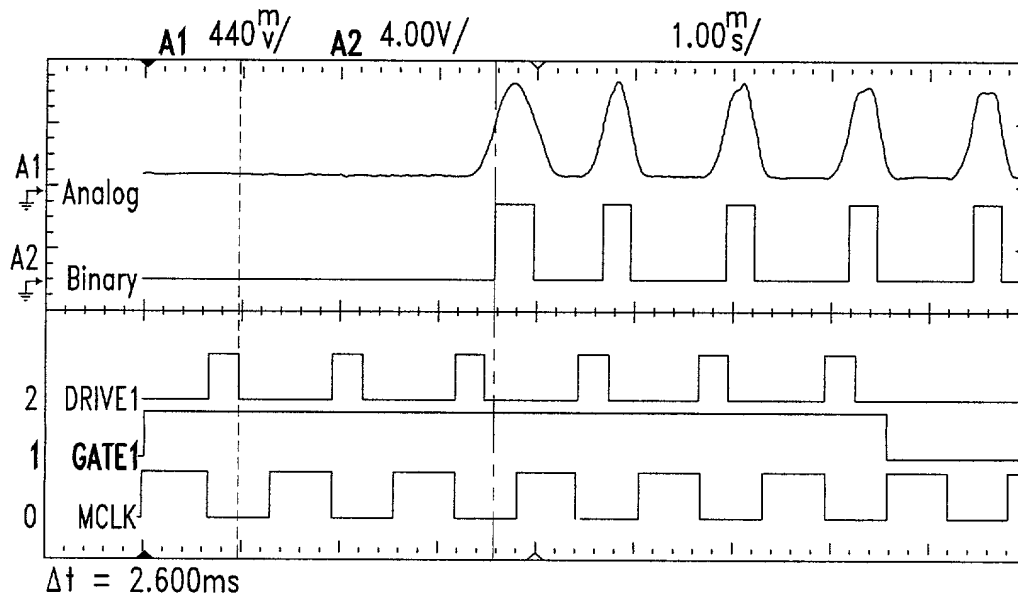
BDD Output Signals for Typical Droplet Formation

Fig. 9



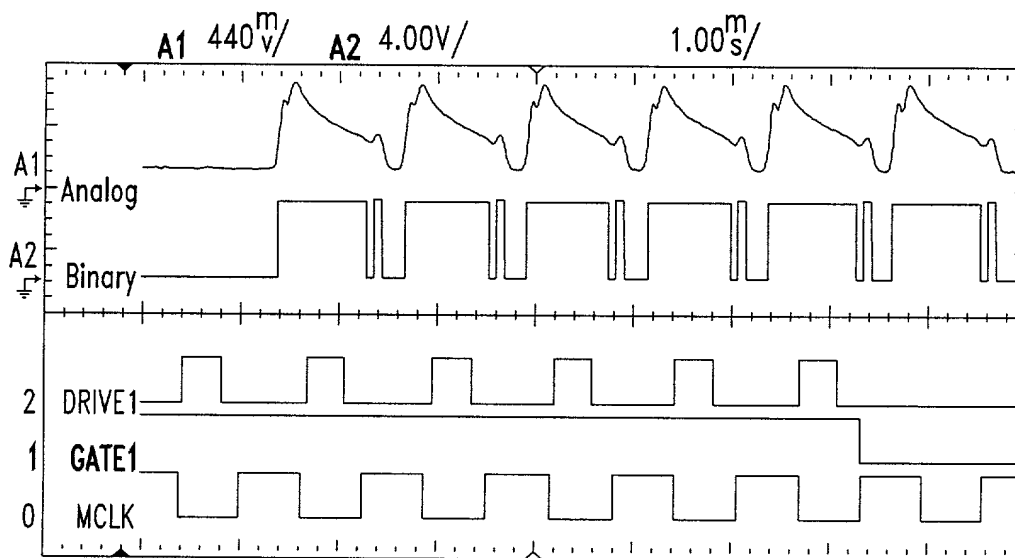
-BDD Output Signals for Premature First Droplet

Fig. 10



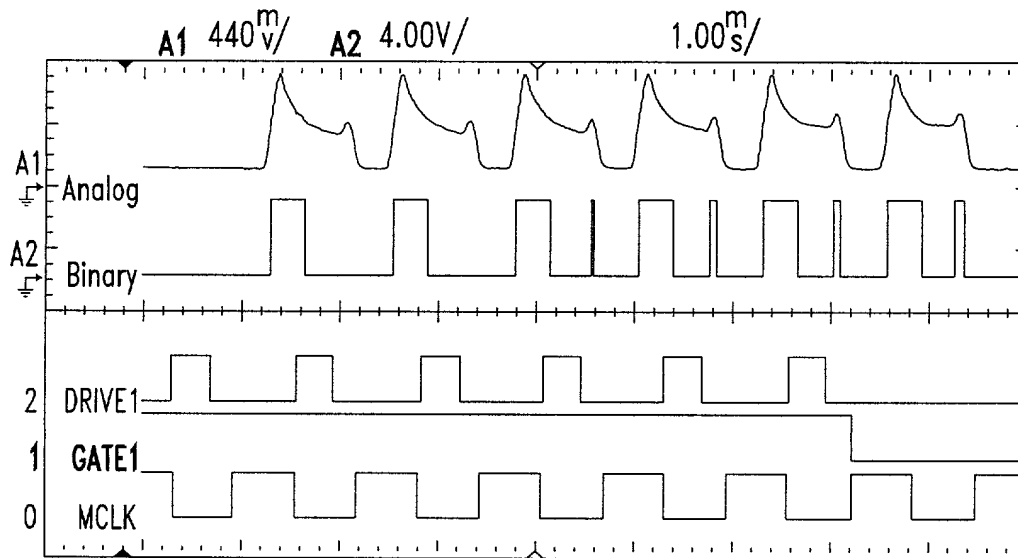
BDD Output Signals Merging First Droplets

Fig. 11



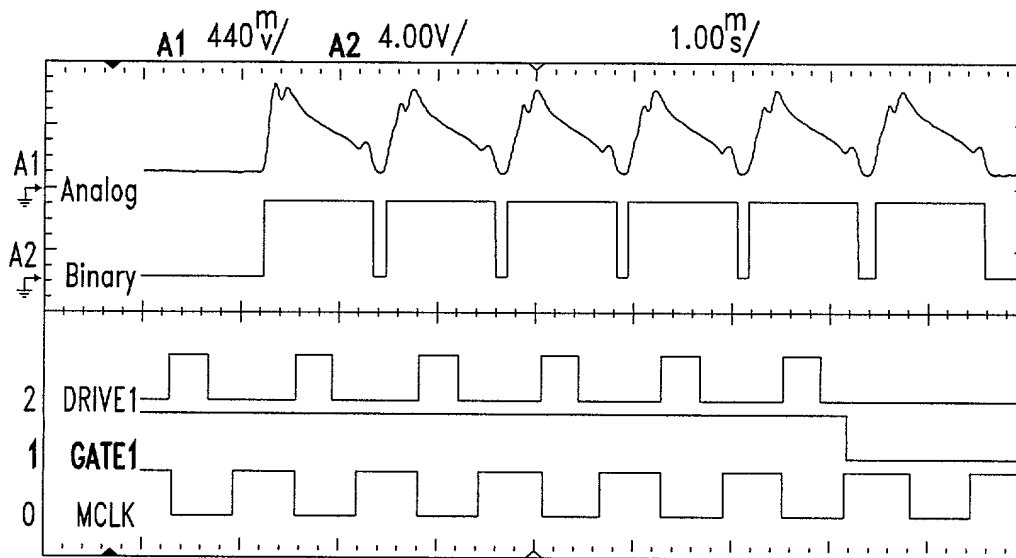
Marginally Low Detection Threshold

Fig. 12



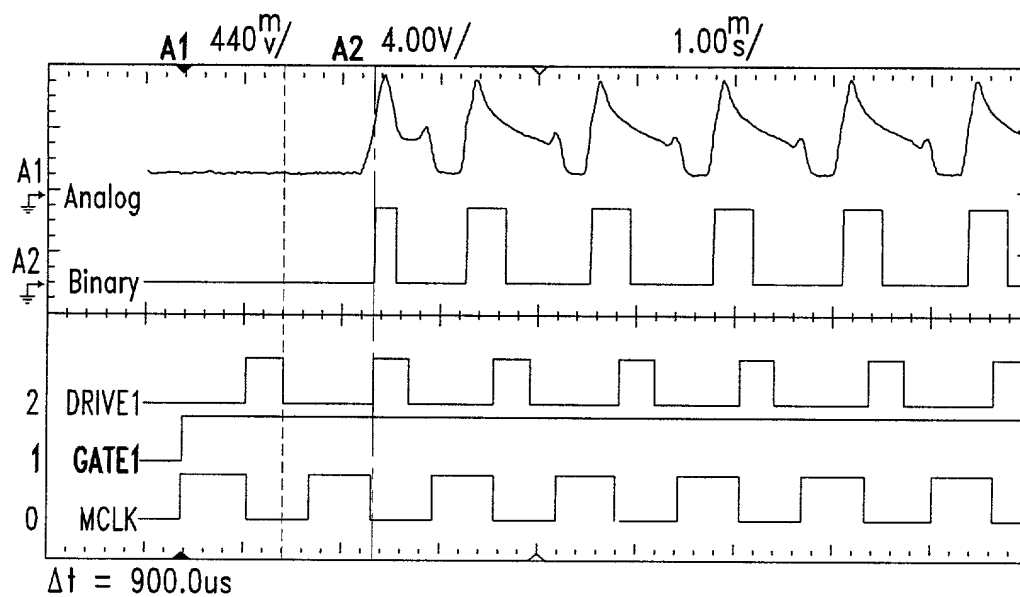
Marginally Low Detection Threshold with Baseline Shift
Due To Sensor Wetting

Fig. 13



Low Detection Threshold Used to Measure Full "Packet" Size

Fig. 14



First Droplets of a Sweep Indicating Smaller First Droplet

Fig. 15

SPECTRA OF DETECTOR OUTPUT FOR DIFFERENT STREAM QUALITIES

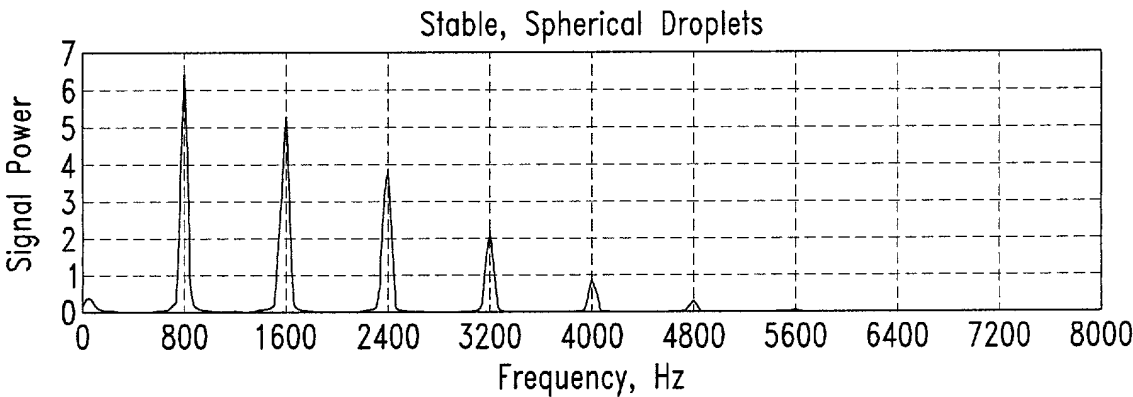


Fig. 16A

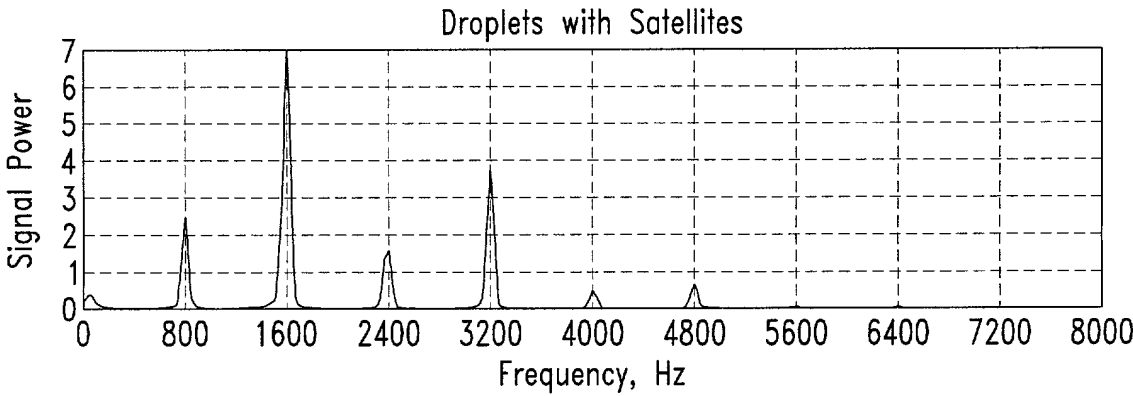


Fig. 16B

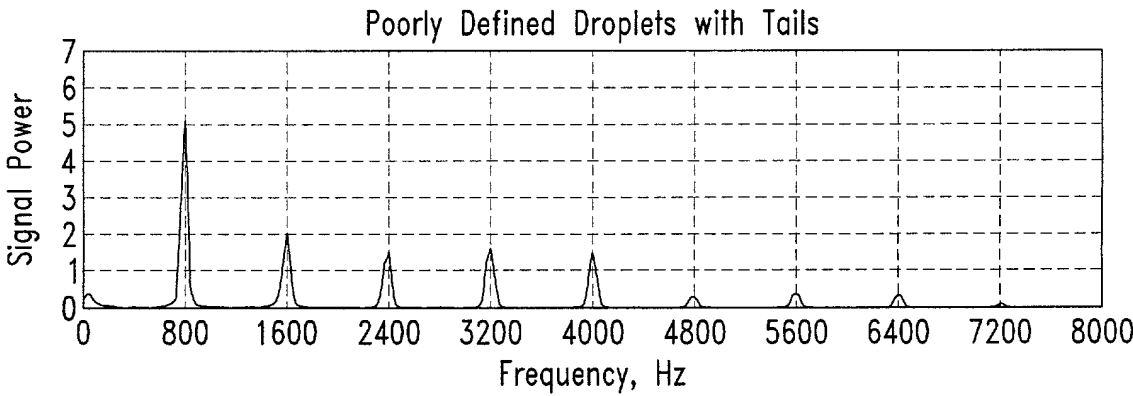


Fig. 16C

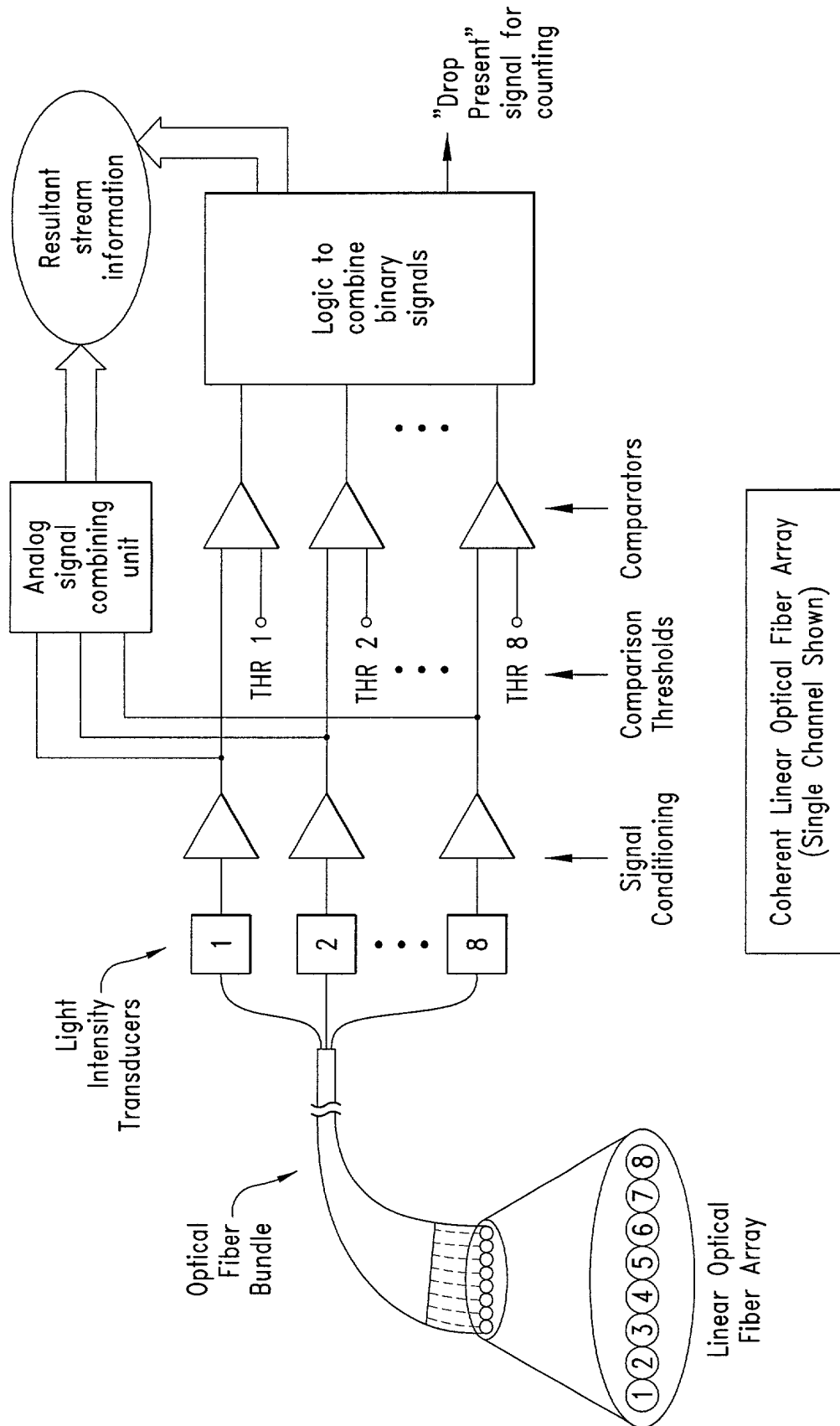


Fig. 17